

NATURAL RESOURCES CONSERVATION SERVICE
Wyoming
CONSTRUCTION SPECIFICATIONS
FOR
PUMPING PLANT FOR WATER CONTROL

(Owner/Operator)

GENERAL

Installation shall be in accordance with an approved design and plan. Details of construction shown on the drawings but not included herein are considered as a part of this specification. Construction activities shall be in accordance with applicable OSHA regulations.

PUMP AND POWER UNIT

The pump or combination of pumps shall be capable of delivering the required water capacity at the total dynamic head and efficiency as specified on the drawings. The power unit shall be capable of operating the pump at the maximum capacity and head without being in an overload condition. The pump supplier shall provide a copy of the Manufacturer's pump curve.

The pump and motor base and foundation shall be constructed of material such as reinforced concrete, structural steel or treated timber. Wood preservatives shall conform to the applicable requirements of ASTM D 1760. The pump and motor assembly shall be set on a firm base and securely fastened. The base shall be capable of withstanding the pump vibration and the dead load weight of the pump and motor assembly.

ELECTRICAL WORK

All electrical wiring and equipment shall be in accordance with current standards of the National Electrical Manufacturer's Association (NEMA), the Underwriters Laboratory, INC. (UL) and the State of Wyoming and applicable county regulations.

(Project Title)

PUMP HOUSING/SHADE

The pump and motor assembly shall be protected from the rain and sun with a shade roof. The shade shall be constructed with durable materials approved by the Technician. The shade shall allow clearance for air movement and ventilation. Position the shade to protect the motor from the midday to late afternoon sun.

CONCRETE

Concrete compressive strength shall be at least 3000 psi at 28 days. The mix design shall be in accordance with ASTM C 94.

CLEAN-UP

The site shall be cleared of all unused materials needed for the construction.

ADDITIONAL SPECIFICATIONS